Markus Mk Kowalewski

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57 1,145 19 32 g-index

69 1,371 5.9 5.02 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
57	Cavity Femtochemistry: Manipulating Nonadiabatic Dynamics at Avoided Crossings. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2050-4	6.4	116
56	Non-adiabatic dynamics of molecules in optical cavities. <i>Journal of Chemical Physics</i> , 2016 , 144, 054309	3.9	88
55	Catching Conical Intersections in the Act: Monitoring Transient Electronic Coherences by Attosecond Stimulated X-Ray Raman Signals. <i>Physical Review Letters</i> , 2015 , 115, 193003	7.4	87
54	Simulating Coherent Multidimensional Spectroscopy of Nonadiabatic Molecular Processes: From the Infrared to the X-ray Regime. <i>Chemical Reviews</i> , 2017 , 117, 12165-12226	68.1	77
53	Monotonic convergent optimal control theory with strict limitations on the spectrum of optimized laser fields. <i>Physical Review Letters</i> , 2008 , 101, 073002	7.4	66
52	Novel photochemistry of molecular polaritons in optical cavities. <i>Faraday Discussions</i> , 2016 , 194, 259-28	2 3.6	62
51	Cavity cooling of internal molecular motion. <i>Physical Review Letters</i> , 2007 , 99, 073001	7.4	61
50	Optimal control theoryclosing the gap between theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14460-85	3.6	55
49	Monitoring nonadiabatic avoided crossing dynamics in molecules by ultrafast X-ray diffraction. <i>Structural Dynamics</i> , 2017 , 4, 054101	3.2	37
48	Monitoring molecular nonadiabatic dynamics with femtosecond X-ray diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6538-6547	11.5	37
47	A molecular conveyor belt by controlled delivery of single molecules into ultrashort laser pulses. <i>Nature Physics</i> , 2012 , 8, 238-242	16.2	34
46	Manipulating molecules with quantum light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3278-3280	11.5	31
45	Multidimensional resonant nonlinear spectroscopy with coherent broadband x-ray pulses. <i>Physica Scripta</i> , 2016 , T169, 014002	2.6	25
44	Ultrafast dynamics in the vicinity of quantum light-induced conical intersections. <i>New Journal of Physics</i> , 2019 , 21, 093040	2.9	25
43	Monitoring Nonadiabatic Electron-Nuclear Dynamics in Molecules by Attosecond Streaking of Photoelectrons. <i>Physical Review Letters</i> , 2016 , 117, 043201	7.4	24
42	. IEEE Journal of Selected Topics in Quantum Electronics, 2012 , 18, 119-129	3.8	21
41	Nucleophilic substitution dynamics: comparing wave packet calculations with experiment. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 4661-9	2.8	20

(2018-2010)

40	Chemoselective quantum control of carbonyl bonds in Grignard reactions using shaped laser pulses. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15780-7	3.6	20
39	X-Ray Sum Frequency Diffraction for Direct Imaging of Ultrafast Electron Dynamics. <i>Physical Review Letters</i> , 2018 , 120, 243902	7.4	19
38	Probing electronic and vibrational dynamics in molecules by time-resolved photoelectron, Auger-electron, and X-ray photon scattering spectroscopy. <i>Faraday Discussions</i> , 2015 , 177, 405-28	3.6	18
37	Quantum Dynamics of a Photochemical Bond Cleavage Influenced by the Solvent Environment: A Dynamic Continuum Approach. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3480-5	6.4	17
36	Nonadiabatic Dynamics May Be Probed through Electronic Coherence in Time-Resolved Photoelectron Spectroscopy. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 740-52	6.4	16
35	Stimulated Raman signals at conical intersections: Ab initio surface hopping simulation protocol with direct propagation of the nuclear wave function. <i>Journal of Chemical Physics</i> , 2015 , 143, 044117	3.9	15
34	Attosecond X-ray Diffraction Triggered by Core or Valence Ionization of a Dipeptide. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 329-338	6.4	13
33	Photoinduced molecular chirality probed by ultrafast resonant X-ray spectroscopy. <i>Structural Dynamics</i> , 2017 , 4, 044006	3.2	12
32	Direct Transition from Triplet Excitons to Hybrid Light-Matter States via Triplet-Triplet Annihilation. Journal of the American Chemical Society, 2021 , 143, 7501-7508	16.4	12
31	Comment on "Self-Referenced Coherent Diffraction X-Ray Movie of Eigstrom- and Femtosecond-Scale Atomic Motion". <i>Physical Review Letters</i> , 2017 , 119, 069301	7.4	11
30	Searching for pathways involving dressed states in optimal control theory. <i>Faraday Discussions</i> , 2011 , 153, 159-71; discussion 189-212	3.6	11
29	Atom Assisted Photochemistry in Optical Cavities. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 4672-4677	7 2.8	10
28	Cavity sideband cooling of trapped molecules. <i>Physical Review A</i> , 2011 , 84,	2.6	10
27	Transition-Metal-Free Borontarbon Bond Activation: Insertion of an NNP Fragment into a Borontarbon Bond. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 5319-5322	2.3	10
26	Cavity cooling of translational and ro-vibrational motion of molecules: ab initio-based simulations for OH and NO. <i>Applied Physics B: Lasers and Optics</i> , 2007 , 89, 459-467	1.9	10
25	Simulating photodissociation reactions in bad cavities with the Lindblad equation. <i>Journal of Chemical Physics</i> , 2020 , 153, 234304	3.9	10
24	Phase Cycling RT-TDDFT Simulation Protocol for Nonlinear XUV and X-ray Molecular Spectroscopy. Journal of Physical Chemistry Letters, 2018 , 9, 1072-1078	6.4	9
23	Diffraction-Detected Sum Frequency Generation: Novel Ultrafast X-ray Probe of Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3392-3396	6.4	7

22	Quantum control with quantum light of molecular nonadiabaticity. Physical Review A, 2019, 100,	2.6	6
21	Current vs Charge Density Contributions to Nonlinear X-ray Spectroscopy. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 3959-68	6.4	5
20	Reinvestigation of hydrazinium tetrafluoroborate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006 , 62, i248-i249		5
19	Impulsive UV-pump/X-ray probe study of vibrational dynamics in glycine. <i>Scientific Reports</i> , 2018 , 8, 1540	6.6 .9	5
18	Imaging of transition charge densities involving carbon core excitations by all X-ray sum-frequency generation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20170470	3	3
17	Molecular wave packet dynamics decelerated by solvent environment: A theoretical approach. <i>EPJ Web of Conferences</i> , 2013 , 41, 05043	0.3	3
16	Capturing fingerprints of conical intersection: Complementary information of non-adiabatic dynamics from linear x-ray probes. <i>Structural Dynamics</i> , 2021 , 8, 034101	3.2	3
15	Electronic and non-adiabatic dynamics: general discussion. <i>Faraday Discussions</i> , 2016 , 194, 209-257	3.6	3
14	Controlling the Photostability of Pyrrole with Optical Nanocavities. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 1142-1151	2.8	3
13	Time-Resolved Photoelectron Spectroscopy of Conical Intersections with Attosecond Pulse Trains. Journal of Physical Chemistry Letters, 2021 , 12, 8103-8108	6.4	3
12	Spectroscopic Investigations of High-Nitrogen Compounds for Near-Infrared Illuminants. <i>Propellants, Explosives, Pyrotechnics</i> , 2014 , 39, 166-172	1.7	2
11	An adaptive interpolation scheme for molecular potential energy surfaces. <i>Journal of Chemical Physics</i> , 2016 , 145, 084104	3.9	2
10	Multiscale wavelet decomposition of time-resolved X-ray diffraction signals in cyclohexadiene. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10269-10274	11.5	2
9	Wave packet simulations of antiproton scattering on molecular hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 195204	1.3	1
8	Sustainable packaging of quantum chemistry software with the Nix package manager. <i>International Journal of Quantum Chemistry</i> ,	2.1	1
7	Multi-wave mixing in the high harmonic regime: monitoring electronic dynamics. <i>Optics Express</i> , 2021 , 29, 4746-4754	3.3	1
6	Photoinduced bond oscillations in ironpentacarbonyl give delayed synchronous bursts of carbonmonoxide release <i>Nature Communications</i> , 2022 , 13, 1337	17.4	O
5	Direct imaging of ultrafast electron dynamics by X-ray sum frequency generation. <i>EPJ Web of Conferences</i> , 2019 , 205, 03004	0.3	

LIST OF PUBLICATIONS

4	Monitoring nonadiabatic dynamics in molecules by ultrafast X-Ray diffraction. <i>EPJ Web of Conferences</i> , 2019 , 205, 09032	0.3
3	Vibrational Energy Transfer Through Molecular Chains: An Approach Toward Scalable Information Processing. <i>Advances in Chemical Physics</i> , 2014 , 371-402	
2	Femtosecond pump-probe spectroscopy for single trapped molecular ions. <i>EPJ Web of Conferences</i> , 2013 , 41, 02028	0.3
1	Structural dynamics: general discussion. <i>Faraday Discussions</i> , 2016 , 194, 583-620	3.6